



Work Orders

Naval Research Labs

Work Order #	Title	Date Opened	Date Closed	System/Subsystem	Activity Level
WOA-01019	Preparation of Fasteners for PEM Mechanical Structure 104-114	5/7/2004	6/23/2004	Mechanical	Flight
WOA-01024	Cleaning of Grommets for Close-Out Plate Assembly (106)	5/7/2004	6/29/2004	Mechanical	Flight
WOA-01029	Cleaning of Bumper Frames for PEM Assembly	5/10/2004	7/13/2004	Mechanical	Flight
WOA-01057	Preparation of Elastic Cords for PEM S/N 106	5/17/2004	6/24/2004	Mechanical	Flight
WOA-01117	Assembly of PEM Mechanical Structure S/N 106	6/4/2004	6/29/2004	Mechanical	Flight
WOA-01268	Flight AFEE Board Checkout: Unpowered Temperature Cycling	7/28/2004	8/27/2004	AFEE Board	Flight
WOA-01269	Safe to Mate Procedure and Pre-Temperature Cycling Functional Test for AFEE -X and -Y Boards	7/29/2004	10/7/2004	AFEE Board	Flight
WOA-01469	Workmanship Vibration Test for EM2 TEM-TPS (FM7)	10/18/2004	2/3/2005	TEM / TPS	Flight
WOA-01475	TEM-TPS Installation and Test, 106	10/20/2004	11/10/2004	CAL Module	Flight
WOA-01105	Receive and Prepare Composite Structure#8 for PEM S/N 106	6/3/2004	6/4/2004	Mechanical	Flight
WOA-01106	Base Plate Assembly - S/N 106	6/3/2004	6/24/2004	Mechanical	Flight
WOA-01119	PEM S/N 106 Assembly - CDE Insertion - Y Face	6/4/2004	7/13/2004	Mechanical	Flight
WOA-01124	PEM S/N 106 Assembly - CDE Insertion - X Face	6/4/2004	7/13/2004	Mechanical	Flight
WOA-01129	PEM Assembly S/N 106 - Closeout Plate Installation - X and Y faces	6/4/2004	6/26/2004	Mechanical	Flight
WOA-01167	Installation of PEM Checkout Electronics on PEM s/n 106	6/28/2004	6/29/2004	PEM Assembly	Flight
WOA-01168	PEM Muon Calibration - PEM 106	6/28/2004	8/12/2004	PEM Assembly	Flight
WOA-01169	PEM Checkout Electronics Disassembly - PEM 106	6/28/2004	8/12/2004	PEM Assembly	Flight
WOA-01249	Received and Inspect GLAST CAL AFEE-X and -Y PCBA for Flight Build	7/17/2004	7/28/2004	Electrical	Flight
WOA-01250	Rework of Capacitors on AFEE- X and -Y Board Printed Wiring Assembly	7/17/2004	8/10/2004	AFEE Board	Flight



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WOA-01270	Safe to Mate Procedure and Pre-Temperature Cycling Functional Test for AFEE -X and -Y Boards	7/29/2004	8/16/2004	AFEE Board	Flight
WOA-01273	Mounting of Flight AFEE-X board to AFEE-X Board Assembly Handing Fixture	7/29/2004	8/9/2004	AFEE Board	Flight
WOA-01290	Flight AFEE Board Checkout: Unpowered Temperature Cycling	8/9/2004	10/7/2004	AFEE Board	Flight
WOA-01292	Preparation of Fasteners for CAL Module Mechanical Assembly (Side Panel Installation)	8/9/2004	10/27/2004	Mechanical	Flight
WOA-01293	Mounting of Flight AFEE-X and -Y board to AFEE-X amd -Y Board Assembly Handing Fixture	8/10/2004	8/19/2004	AFEE Board	Flight
WOA-01296	Post-Temperature Cycling Functional Testing of AFEE Boards and LAC DAC Limit Test.	8/11/2004	10/7/2004	AFEE Board	Flight
WOA-01298	Mounting of Flight AFEE-X and -Y boards to AFEE Board Assembly Handing Fixture	8/11/2004	8/19/2004	AFEE Board	Flight
WOA-01306	AFEE Flight Boards: Series Resistor to Reference Change	8/20/2004	12/22/2004	AFEE Board	Flight
WOA-01323	Received and Inspect EGSE CAL FM Test Stand #7 TEM/PS	8/26/2004	10/14/2004	TEM / TPS	Flight
WOA-01324	Verification and Installation of EGSE CAL FM Test Stand #7	8/26/2004	12/29/2004	TEM / TPS	Flight
WOA-01385	AFEE Board Reference Voltage and Leakage Current Test	9/22/2004	11/8/2004	AFEE Board	Flight
WOA-01399	AFEE X and Y Boards Vapor Degreaser Clean at WEMS	9/27/2004	10/8/2004	AFEE Board	Flight
WOA-01403	Mechanical Installation of AFEE Cards onto PEM 106	9/27/2004	11/1/2004	CAL Module	Flight
WOA-01407	Installation of PEM 106 onto Turn-Over Fixture	9/27/2004	10/29/2004	Mechanical	Flight
WOA-01413	Electrical Installation of AFEE Cards onto PEM 106	9/27/2004	11/5/2004	CAL Module	Flight
WOA-01418	Assembly of AFEE Cable Support Assembly	9/27/2004	10/27/2004	Mechanical	Flight
WOA-01420	Preparation of Fasteners for PEM to CAL Tower Module Assembly (TEM-TPS Installation)	9/27/2004	10/27/2004	Mechanical	Flight
WOA-01438	AFEE Checkout After Conformal Coating, Before Installation on CAL Module	10/4/2004	11/5/2004	AFEE Board	Flight



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WOA-01447	Flight AFEE X and Y Board 3 Temperature Functional Testing and Dynamic Burn-in Procedure	10/7/2004	2/1/2005	Electrical	Flight
WOA-01450	Received AFEE X and Y Boards back from WEMS Electronics after vapor degreaser	10/8/2004	10/8/2004	AFEE Board	Flight
WOA-01479	Final Mechanical Close-Out of the CAL Tower Module 106	10/20/2004	11/15/2004	CAL Module	Flight
WOA-01483	Final Electrical Close-Out of CAL Tower Module 106	10/20/2004	11/15/2004	CAL Module	Flight
WOA-01487	Final Systems Test and Close-Out of the CAL Tower Module 106	10/20/2004	12/29/2004	CAL Module	Flight
WOA-01491	AFEE X and Y Board Component Staking - Lot 9 and 10	10/21/2004	10/22/2004	AFEE Board	Flight
WOA-01500	Conformal Coating Procedure of AFEE X and Y Flight Boards by Captron Corporation - LOT 9	10/22/2004	11/1/2004	AFEE Board	Flight
WOA-01502	Installation of PEM Checkout Electronics on PEM s/n 106 -- repeat test. Test not performed- Void Workorder	10/22/2004	2/3/2005	PEM Assembly	Flight
WOA-01503	PEM Muon Calibration - PEM 106 -- repeat test, Test not performed - Void Workorder	10/22/2004	2/3/2005	PEM Assembly	Flight
WOA-01505	PEM Checkout Electronics Disassembly - PEM 106 Test not performed- Void Workorder	10/22/2004	2/3/2005	PEM Assembly	Flight
WOA-01523	Move FM 106 from Clean Room to Tent for Initial Reference Functional Test	10/29/2004	11/16/2004	CAL Module	Flight
WOA-01527	Initial reference functional test and calibration -- CAL FM106	10/29/2004	2/3/2005	CAL Module	Flight
WOA-01534	Wrap AFEE-TEM Y Cables with EMI Shielding	11/1/2004	11/5/2004	Electrical	Flight
WOA-01620	Vibration Test for CAL FM 106	11/17/2004	2/18/2005	Mechanical	Flight
WOA-01633	EMI/EMC Acceptance Test of CAL Tower Module 106	11/19/2004	12/20/2004	CAL Module	Flight
WOA-01646	Preparation of CAL Tower Module (FM 106) for TVAC Testing	11/30/2004	2/2/2005	CAL Module	Flight
WOA-01648	CAL Tower Module TVAC Test (FM 106)	11/30/2004	1/31/2005	CAL Module	Flight
WOA-01694	Pre-ship reference functional test and calibration -- CAL FM106	12/13/2004	2/3/2005	CAL Module	Flight



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WOA-01697	Replace hardware on TPS of TEM-TPS Assembly, S/N FM 7	12/14/2004	2/3/2005	TEM / TPS	Flight
WOA-01790	LAC threshold study -- CAL FM106	12/23/2004	2/3/2005	CAL Module	Flight
WOA-01751	CAL Mass Properties Measurement - Weighing Operations, FM106	12/17/2004	1/14/2005	CAL Module	Flight
WOA-01810	Retriggering study -- CAL FM106	1/4/2005	2/2/2005	CAL Module	Flight
WOA-01811	External-triggered muon time-to-peak study -- CAL FM106	1/4/2005	2/2/2005	CAL Module	Flight
WOA-01812	Flight-mode study with muons -- CAL FM106	1/4/2005	2/2/2005	CAL Module	Flight
WOA-01817	Dimensional Verification of IDD Interface as per LAT-DS-00233 for Pre-Ship Inspection of FM 106	1/4/2005	1/6/2005	CAL Module	Flight
WOA-01911	Final preparation of CAL Shipping Container for shipment	1/28/2005		GSE	Flight
WOA-01913	Final preparation of CAL Module for shipment - FM 106	1/28/2005		CAL Module	Flight
WOA-01758	Apply Ink to +X and +Y Orientation Markings - FM 106	12/17/2004	12/30/2004	CAL Module	Flight
WOA-01934	Repeat pre-ship reference functional test and electronic calibration -- CAL FM106	2/14/2005	2/18/2005	CAL Module	Flight
WOA-01939	Post-Ship-to-SLAC Unpacking and Test -- FM106	2/18/2005		CAL Module	Flight
WOA-01840	Self-triggered muon time-to-peak (muShape) study -- CAL FM106	1/6/2005	2/18/2005	CAL Module	Flight